## Logging using SLF4J

## **Exercise 1: Logging Error Messages and Warning Levels**

Task: Write a Java application that demonstrates logging error messages and warning levels using SLF4].

```
"C:\Program Files\Java\]dk-21\bin\]ava.exe" "-javaagent:C:\Program Files\JetBrains\Intel(
17:38:50.611 [main] ERROR com.example.LoggingExample - This is an error message
17:38:50.615 [main] WARN com.example.LoggingExample - This is a warning message
```

## **Exercise 2: Parameterized Logging**

Task: Write a Java application that demonstrates parameterized logging using SLF4J.

```
"C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Communit 17:41:06.461 [main] INFO com.example.ParameterizedLoggingExample - User Sai has logged in. 17:41:06.470 [main] DEBUG com.example.ParameterizedLoggingExample - User Sai is 25 years old.
```

## **Exercise 3: Using Different Appenders**

Task: Write a Java application that demonstrates using different appenders with SLF4J.

```
<configuration>
    <appender name="console" class="ch.qos.logback.core.ConsoleAppender">
            <pattern>%d{HH:mm:ss.SSS} [%thread] %-5level %logger{36} - %msg%n</pattern>
        </encoder>
    </appender>
    <appender name="file" class="ch.qos.logback.core.FileAppender">
        <file>app.log</file>
        <encoder>
            <pattern>%d{yyyy-MM-dd HH:mm:ss} %-5level %logger{36} - %msg%n</pattern>
        </encoder>
    </appender>
    <root level="debug">
        <appender-ref ref="console" />
        <appender-ref ref="file" />
    </root>
</configuration>
```

```
"C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.2.5
17:43:03.016 [main] INFO com.example.AppenderLoggingExample - This message should appear in both the console and app.log
17:43:03.019 [main] WARN com.example.AppenderLoggingExample - This is a warning written to both appenders
17:43:03.019 [main] ERROR com.example.AppenderLoggingExample - This is an error message with appenders
```